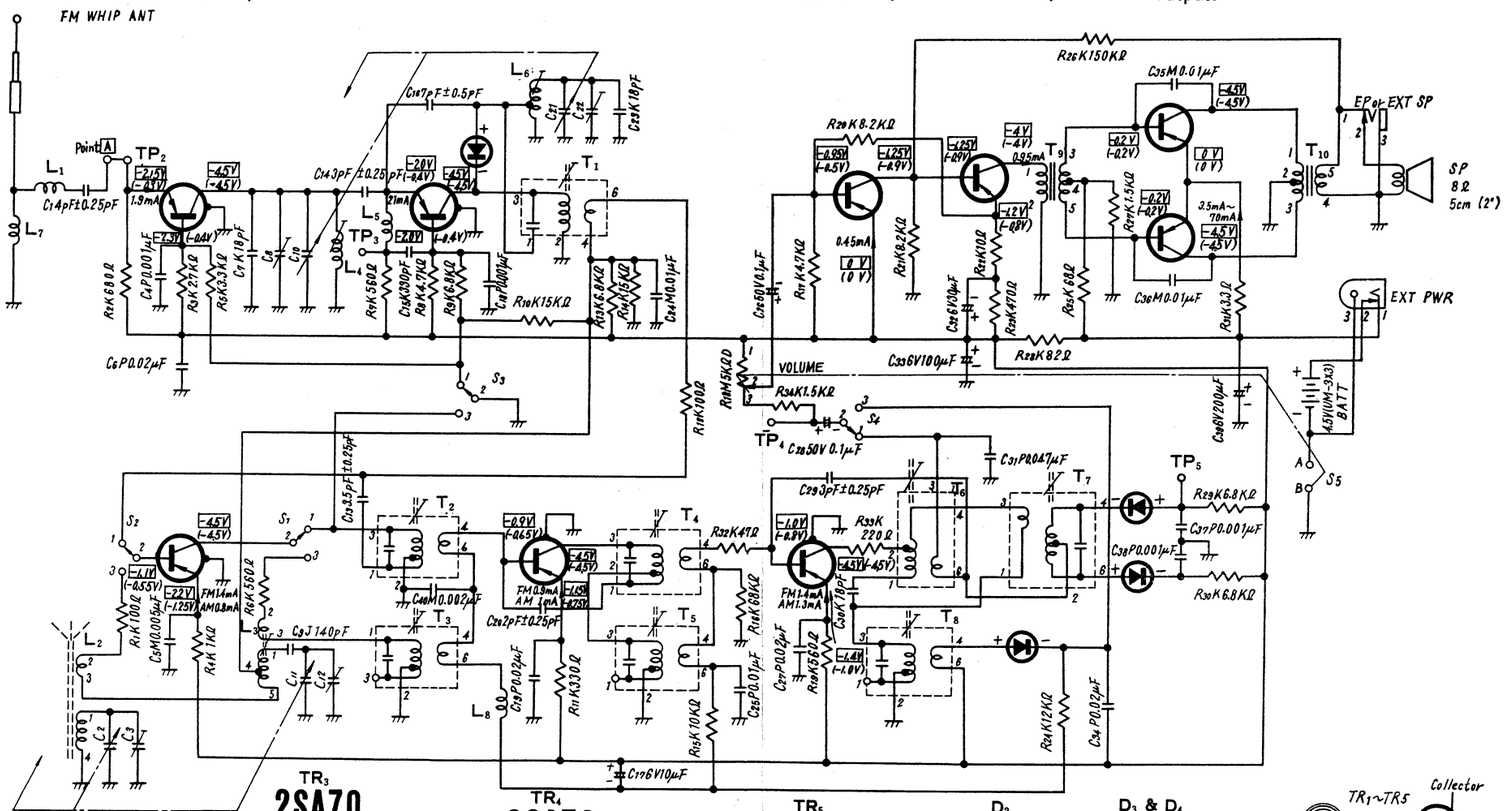
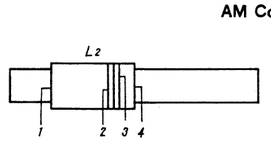
SCHEMATIC DIAGRAM MODEL RF-90

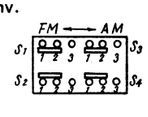
TR1 **2SA241** FM RF Amp.
TR2 **2SA71** FM Conv.
D1 **0A70** FM AGC
TR6 **2SB171** 1st AF Amp.
TR7 **2SB175** 2nd AF Amp.
TR8 & TR9 **2SB172×2** Output.



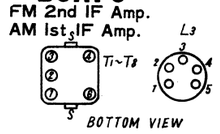
TR3 **2SA70** FM 1st IF Amp. AM Conv.
TR4 **2SA70** FM 2nd IF Amp. AM 1st IF Amp.
TR5 **2SA70** FM 3rd IF Amp. AM 2nd IF Amp.
D2 **0A70** AM Det. & AGC
D3 & D4 **0A70×2** FM Ratio Det.



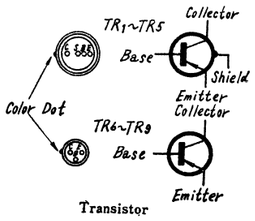
AM Antenna Coil



Band Selector Switch



FM, AM IFT AM Oscillator Coil



Transistor

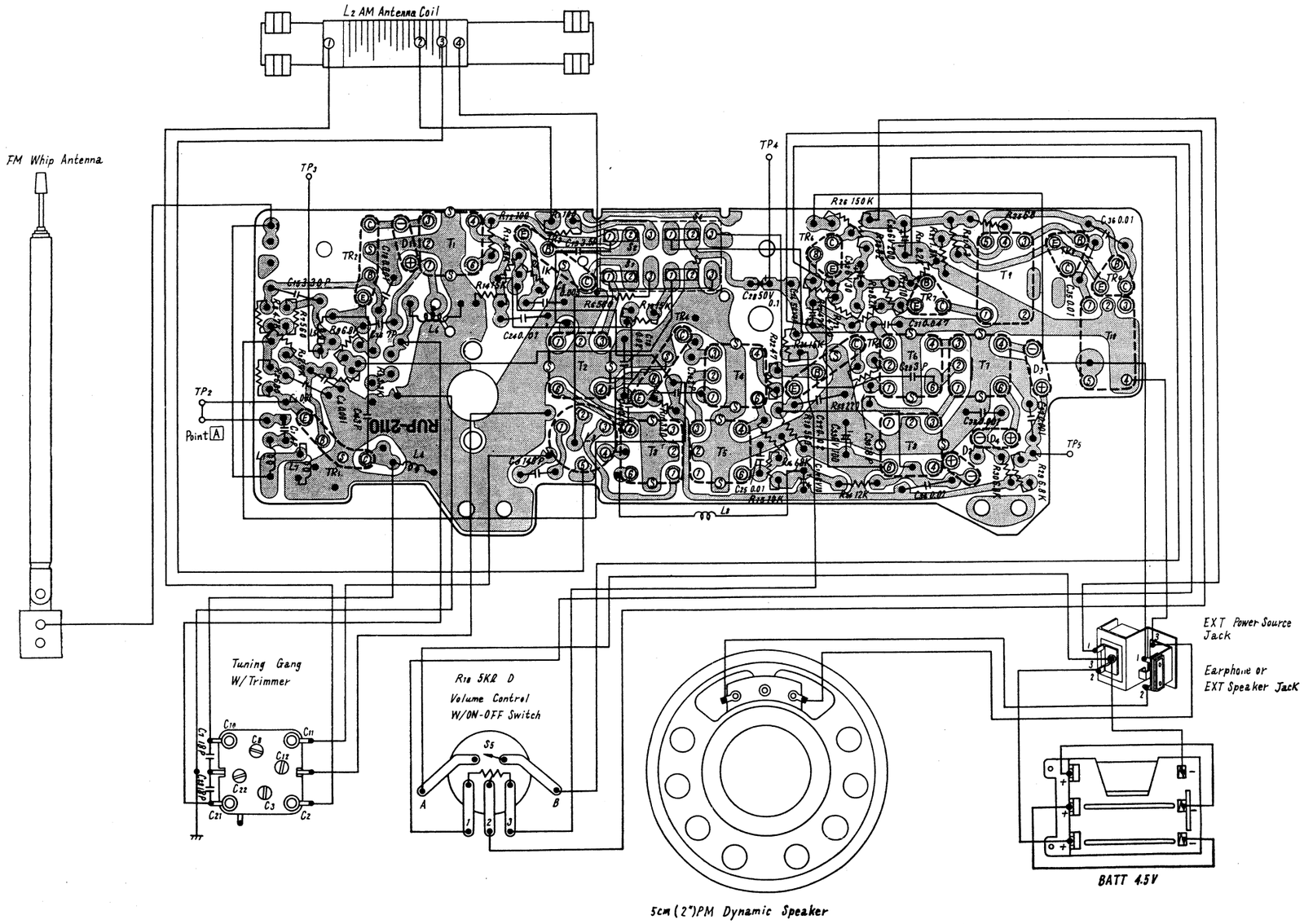
Notes:

1. $S_1 \sim S_4$: Band selector switch in "FM" position.
2. S_5 : Power source switch in "OFF" position.
3. DC voltages indicated are taken with circuit tester (10KΩ /V).
   □……FM position ( )……AM psoition
4. Indicated voltages for $TR_1 \sim TR_9$ are from transistor terminal to positive side of battery.
5. Capital letters (J, K, M, P) in the circuit diagram show allowable tolerances of resistors and capacitors as follows:
   J=±5% K=±10% M=±20% P=+100% −0%
6. PF=pico farad=mmf
   μF=micro farad=MF
7. Battery current: No signal……FM 22mA
   〃 ……AM 18mA
   Maximum Output …FM, AM 85mA

CIRCUIT BOARD

MODEL RF-90

Conductor View



Notes:

1. All resistor values in ohms (K=1000Ω).
2. All capacitor values in micro farads (P=μμF).
3. $S_1 \sim S_4$: Band selector switch in "FM" position.
4. S_5 : Power source switch in "OFF" position.